

**Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**AIR QUALITY PERMIT
Issued under 401 KAR 52:040**

Permittee Name: CA Garner Veneer, Inc.

Mailing Address: 2125 Lake Jerico Road
Smithfeild, KY 40068

Source Name: Same as Above
Mailing Address: Same as Above

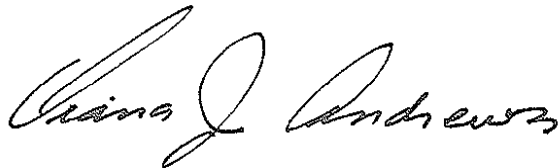
Source Location: Same as Above

Permit Number: S-06-095
Source A. I. #: 1842
Activity #: APE20060002
Review Type: Minor Source, Operating
Source ID #: 21-103-00020

Regional Office: Florence Regional Office
8020 Veteran Memorial Dr., Suite 110
Florence, KY 41042
(859) 525-4923

County: Henry

Application
Complete Date: July 5, 2006
Issuance Date: July 20, 2006
Revision Date: NA
Expiration Date: July 20, 2016



**John S. Lyons, Director
Division for Air Quality**

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Emission Unit 01 (EP01) Wood-Fired Indirect Heat Exchanger

Description:

Wood-fired Steam Boiler, 20.35 mmBtu/hour rated heat input, 400 BHP output, Industrial Boiler Company Model WWF-MP-III-400.

Controls: Multi-Cyclone with Flyash Reinjection.

Construction commenced: 1990

APPLICABLE REGULATIONS:

401 KAR 59:015, New Indirect Heat Exchangers with a capacity of 250 mmBtu/hr or less commencing on or after April 9, 1972.

401 KAR 60:005, incorporating by reference, 40 CFR 60, subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, applies due to having a rated heat input greater than 10 mmBtu/hour, however, no standards apply due to being wood fired and less than 30 mmBtu/hr.

401 KAR 63:020, Potentially Hazardous Matter or Toxic Substances

1. Operating Limitations:

- a. The wood fuel usage shall not exceed 20,588 tons per year.
- b. Pursuant to 401 KAR 63:020, the permittee shall not combust wood treated with creosote, arsenic (CCA) or other metals as preservatives.
- c. Pursuant to 401 KAR 63:020, persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants.

2. Emission Limitations:

- a. Pursuant to 401 KAR 59:015 Section 4 (1)(c), particulate emissions shall not exceed 0.472 lb/mmBtu based on a three-hour average.

Permittee may assure compliance with the particulate standard with the formula:

Particulate emissions rate (lb/mmBtu) = [(tons wood burned per hour of operation) x (5.8 pounds per ton (AP-42 factor)) x (1 minus 0.80 (control efficiency))] divided by 20.35 mmBtu/hour.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- b. Pursuant to 401 KAR 59:015 Section 4 (2), visible emissions shall not exhibit greater than twenty (20) percent opacity based on a six (6) minute average except that a maximum of forty (40) percent opacity shall be permissible for not more than six (6) consecutive minutes in any sixty (60) consecutive minutes during cleaning of the fire box or soot blowing and except during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.
- c. Pursuant to 59:015 Section 5 (1) and in accordance with state only requirements in Operating Permit O-91-046, sulfur dioxide emissions shall not exceed 1.0 lb/mmBtu based on a three-hour average and 85.6 tons/year.

Compliance with the sulfur dioxide standard is assured while burning wood only for fuel.

3. Testing Requirements:

None

4. Monitoring Requirements:

- a. Permittee shall monitor the amount of wood burned for fuel on a monthly basis.
- b. The permittee shall perform a qualitative visual observation of the opacity of emissions on a weekly basis and maintain a log of the observations. If visible emissions are seen, the permittee shall initiate an inspection of the unit and if necessary, make repairs or adjustments to the boiler controls or the emission control process. If repairs or adjustments are initiated as a result of the weekly observation, then opacity shall be determined by USEPA Reference Method 9.
- c. At a minimum of once per month, USEPA Reference Method 9 observations shall be performed and the readings recorded in a log.

5. Recordkeeping Requirements:

- a. The permittee shall record the amount of wood burned for fuel and the hours of unit operation on a monthly basis.
- b. The permittee shall maintain records of all maintenance, inspection, and visible emission observation logs; all U.S. EPA Reference Method 9 readings; and any corrective actions taken and repairs made to the combustion controls or pollution control devices.

6. Reporting Requirements:

See General Conditions Sections C 1, C 3, and F2.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 02 (EP 02) Indirect Heat Exchanger

Description:

Diesel-Fired Backup Boiler

Control Equipment: None

Primary Fuels: Number 1 and Number 2 Fuel Oil

7.65 mmBtu/hr Maximum Rated Heat Input Capacity at 150 BHP output

Construction commenced: 1983

Applicable Regulations:

401 KAR 59:015, New Indirect Heat Exchangers with a capacity of 250 mmBtu/hr or less commencing on or after April 9, 1972.

1. Operating Limitations:

None

2. Emission Limitations:

- a. Pursuant to 401 KAR 59:015 Section 4 (1)(c), particulate emissions shall not exceed 0.45 lb/mmBtu based on a three-hour average.

Permittee may assure compliance with the particulate standard with the formula:

Particulate emissions rate (lb/mmBtu) = [(gallons oil burned per hour of operation) x (0.002 pounds per gallon (AP-42 factor))] divided by 7.65 mmBtu/hour.

- b. Pursuant to 401 KAR 59:015 Section 4 (2), visible emissions shall not exhibit greater than twenty (20) percent opacity based on six (6) minute average except that a maximum of forty (40) percent opacity shall be permissible for not more than six (6) consecutive minutes in any sixty (60) consecutive minutes during cleaning of the fire box or soot blowing and except during building a new fire for the period required to bring the boiler up to operating conditions provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations.
- c. Pursuant to 401 KAR 59:015 Section 5 (2), sulfur dioxide emissions shall not exceed 1.26 lbs/mmBtu based on a three-hour average.

Compliance with the sulfur dioxide standard is assured while burning 0.5 percent sulfur by weight fuel oil.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

None

4. Monitoring Requirements:

- a. Permittee shall monitor the amount of fuel oil burned on a monthly basis.
- b. The permittee shall perform a qualitative visual observation of the opacity of emissions on a weekly basis when the boiler is operating and maintain a log of the observations. If visible emissions are seen, the permittee shall initiate an inspection of the unit and if necessary, make repairs or adjustments to the boiler controls or the emission control process. If repairs or adjustments are initiated as a result of the weekly observation, then opacity shall be determined by USEPA Reference Method 9.

5. Recordkeeping Requirements:

- a. The permittee shall record the amount of fuel oil burned and the hours of unit operation on a monthly basis.
- b. The permittee shall keep records of the sulfur content of the fuel oil. This record may be a certified fuel analysis provided by the fuel oil suppliers or similar analysis.
- c. The permittee shall maintain records of all maintenance, inspection, and visible emission observation logs; all U.S. EPA Reference Method 9 readings; and any corrective actions taken and repairs made to the combustion controls or pollution control devices.

6. Reporting Requirements:

See General Conditions Sections C 1, C 3, and F2.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emission Unit 05 (-) Source-wide Fugitive Emissions

Description:

- (-) Flyash Disposal, controls: Moist Material
- (-) Log Storage Piles, controls: Wet Suppression
- (-) Debarker Operations, controls: Partial Enclosure
- (-) Debarker Wood Waste Conveyor, controls: Partial Enclosure
- (-) Haul Road and Yard Operations, controls: Wet Suppression

APPLICABLE REGULATIONS:

401 KAR 63:010, Fugitive emissions is applicable to each affected facility which emits or may emit fugitive emissions and is not elsewhere subject to an opacity standard within the administrative regulations of the Division for Air Quality.

401 KAR 63:005, Open Burning, applies to all open burning that is not subject to another administrative regulation of the Division for Air Quality.

1. Operating Limitations:

Pursuant to 401 KAR 63:005, Section 3, all open burning shall be prohibited except as provided for in 401 KAR 63:005, Sections 4 and 5.

2. Emission Limitations:

- a. The materials processed at each affected facility listed above shall be controlled with wet suppression, enclosures, and/or dust collection equipment so as to comply with the requirements specified in 401 KAR 63:010, Section 3, Standards for Fugitive Emissions.
- b. Pursuant to 401 KAR 63:010, Section 3 (1), no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished, or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:
 - (1) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
 - (2) Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, materials stockpiles, and other surfaces which can create airborne dusts;

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations: (Continued)

- (3) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. Adequate containment methods shall be employed during sandblasting or other similar operations.
 - (4) Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;
 - (5) The maintenance of paved roadways in a clean condition;
 - (6) The prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water.
- c. Pursuant to 401 KAR 63:010, Section 3 (2), no person shall cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate.
- d. Pursuant to 401 KAR 63:010, Section 3 (3), when dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the Secretary may order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that all air and gases and air or air-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.
- e. Pursuant to 401 KAR 63:010, Section 4, Additional Requirements, in addition to the requirements of Section 3 of this regulation, the following shall apply:
 - (1) Pursuant to 401 KAR 63:010, Section 4 (1), open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered at all times when in motion.
 - (2) Pursuant to 401 KAR 63:010, Section 4 (4), no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway.

SECTION B – EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

f. Compliance Demonstration Method:

- (1) For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:

Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation in accordance with the manufacturer's specifications and/or standard operating procedures at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control equipment is not.

3. Testing Requirements:

None

4. Specific Monitoring Requirements:

- a. Visual observations shall be made during each shift, and when any change in method of operation or material occurs, of all operations and control equipment to ensure the control equipment is functioning while the associated equipment is in operation and to determine if any fugitive air emissions are being generated in such a manner as to cause a nuisance or to cross the property line. If such a condition develops, water or another wetting agent shall be applied to suppress the fugitive air emissions so as to comply with the applicable requirements of 401 KAR 63:010 as listed above.
- b. In addition, visual observations shall be made daily during plant operation to determine if fugitive dust is becoming airborne from the haul road, yard area, or storage areas as the result of vehicular traffic or windy conditions. If such a condition develops, water or a chemical wetting agent shall be applied to these areas as specified in 401 KAR 63:010 as listed above.

5. Specific Recordkeeping Requirements:

- a. Records of daily observations, and support information shall be kept.
- b. A log shall be kept of all routine and non-routine maintenance performed on each control device.

6. Specific Reporting Requirements:

See General Conditions Sections C 1, C 3, and F2.

SECTION C - GENERAL CONDITIONS

A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]
3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Material incorporated by reference by 401 KAR 52:040, Section 1a, 11].
4. Pursuant to materials incorporated by reference by 401 KAR 52:040, this permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Material incorporated by reference by 401 KAR 52:040, Section 1a, 4,5].
5. This permit does not convey property rights or exclusive privileges [Material incorporated by reference by 401 KAR 52:040, Section 1a, 8].
6. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].
7. This permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in 401 KAR 50:038, Air emissions fee. The permittee shall submit an annual emissions certification pursuant to 401 KAR 52:040, Section 20.
8. All previously issued permits to this source at this location are hereby null and void.

B. Recordkeeping Requirements

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f)].

SECTION C - GENERAL CONDITIONS (CONTINUED)

B. Recordkeeping Requirements (continued)

2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

C. Reporting Requirements

1. a. In accordance with the provisions of 401 KAR 50:055, Section 1, the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
- b. The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition 1. a. above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Material incorporated by reference by 401 KAR 52:040, Section 5, 3].
2. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the permit [Material incorporated by reference by 401 KAR 52:040, Section 1a, 6].
3. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

The summary reports are due January 30th and July 30th of each year. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

SECTION C - GENERAL CONDITIONS (CONTINUED)

D. Inspections

1. In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation.
 - b. To access and copy any records required by the permit.
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
 - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

E. Emergencies/Enforcement Provisions

1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Material incorporated by reference by 401 KAR 52:040, Section 1a, 3].
2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement [401 KAR 52:040, Section 22(1)].
4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040, Section 22(2)].

SECTION C - GENERAL CONDITIONS (CONTINUED)**F. Compliance**

1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
 - a. Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.
 - b. All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and nonroutine maintenance performed on each control device.
 - c. A log of the monthly raw material consumption and monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division [401 KAR 50:055, Section 2].
2. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
 - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality	Division for Air Quality
Florence Regional Office	Central Files
8020 Veterans Memorial Dr., Suite 110	803 Schenkel Lane
Florence, KY 41042	Frankfort, KY 40601-1403
3. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
 - (a) Applicable requirements that are included and specifically identified in this permit; or
 - (b) Non-applicable requirements expressly identified in this permit [401 KAR 52:040, Section 11].

SECTION C - GENERAL CONDITIONS (CONTINUED)

G. Construction Requirements:

None

SECTION D - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. While these activities are designated as insignificant the permittee shall comply with the applicable regulation and any level of periodic monitoring specified below.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Two Wood-fuel Storage Silos (EU04) (with Cyclones from Plant Operations)	401 KAR 59:010, Permittee shall not cause continuous emissions from a stack which is greater than or equal to twenty (20) percent opacity.
2. Wood Chipper (CH2)(EU04) (with Cyclone from Plant Operations)	401 KAR 59:010, Permittee shall not cause continuous emissions from a stack which is greater than or equal to twenty (20) percent opacity.
3. Two Veneer Dryers (EU03)(EP3) (2340 ft ² /hr veneer produced)	401 KAR 59:010, Permittee shall not cause continuous emissions from a stack which is greater than or equal to twenty (20) percent opacity.
4. Solvent based Parts Washer	N/A